



CLEAN VERSION OF PENDING CLAIMS

RAPID GENERATION OF RECOMBINANT ADENOVIRAL VECTORS

Applicant: Beverly L. Davidson et al.

Serial No.: 09/521,524

22. [Amended] A method for producing recombinant adenovirus consisting of transfecting a host cell with
- (a) an Ad backbone plasmid comprising an Ad genome lacking map units 0 to 9.2, wherein the numbering of the map units starts with the lefthand ITR, and
  - (b) a shuttle plasmid comprising Ad sequences from 0 to 1 map units and 9.2 to 16.1 map units of an Ad genome
- wherein the recombinant adenovirus is devoid of sequences necessary for packaging and replication.
26. [New] The method of claim 22, wherein the shuttle plasmid is present in an amount of about fifteen times molar ratio as compared to an amount of the backbone plasmid.
27. [New] The method of claim 22, wherein the transfecting is by a calcium phosphate method of transfection.
28. [New] Ad backbone plasmid pacAd5 9.2-100, pacAd5 9.2-100/SwaI, pacAd5 9.2-100/E3Δ1.8, pacAd5 9.2-100/E3Δ2.6, pacAd5 9.2-100/E3Δ3.1, pacAd5 9.2-100/E3Δ-RSVntlacZ, pacAd5 9.2-100/E3Δ-RSVEGFP, pacAd5 9.2-100/E4Δ, pacAd5 9.2-100/E3ΔE4orf6, or pacAd5 9.2-100/E3CMVmcsA.
29. [New] A cloning system for generating recombinant adenovirus comprising:
- (a) Ad backbone plasmid pacAd5 9.2-100, pacAd5 9.2-100/SwaI, pacAd5 9.2-100/E3Δ1.8, pacAd5 9.2-100/E3Δ2.6, pacAd5 9.2-100/E3Δ3.1, pacAd5 9.2-100/E3Δ-RSVntlacZ, pacAd5 9.2-100/E3Δ-RSVEGFP, pacAd5 9.2-100/E4Δ, pacAd5 9.2-100/E3ΔE4orf6, or pacAd5 9.2-100/E3CMVmcsA, and
  - (b) a shuttle plasmid comprising Ad sequences from 0 to 1 map units and 9.2 to 16.1 map units of an Ad genome.
30. [New] A host cell comprising:
- (a) Ad backbone plasmid pacAd5 9.2-100, pacAd5 9.2-100/SwaI, pacAd5 9.2-100/E3Δ1.8, pacAd5 9.2-100/E3Δ2.6, pacAd5 9.2-100/E3Δ3.1, pacAd5 9.2-100/E3Δ-RSVntlacZ, pacAd5 9.2-100/E3Δ-RSVEGFP, pacAd5 9.2-100/E4Δ, pacAd5 9.2-100/E3ΔE4orf6, or pacAd5 9.2-100/E3CMVmcsA, and
  - (b) a shuttle plasmid comprising Ad sequences from 0 to 1 map units and 9.2 to 16.1 map units of an Ad genome.
31. [New] The host cell of claim 30, wherein the cell is an animal cell.

32. [New] A method for producing recombinant adenovirus comprising contacting a host cell with
- (a) Ad backbone plasmid pacAd5 9.2-100, pacAd5 9.2-100/SwaI, pacAd5 9.2-100/E3 $\Delta$ 1.8, pacAd5 9.2-100/E3 $\Delta$ 2.6, pacAd5 9.2-100/E3 $\Delta$ 3.1, pacAd5 9.2-100/E3 $\Delta$ -RSVntlacZ, pacAd5 9.2-100/E3 $\Delta$ -RSVEGFP, pacAd5 9.2-100/E4 $\Delta$ , pacAd5 9.2-100/E3 $\Delta$ E4orf6, or pacAd5 9.2-100/E3CMVmcspA, and
  - (b) a shuttle plasmid comprising Ad sequences from 0 to 1 map units and 9.2 to 16.1 map units of an Ad genome.
33. [New] The method of claim 32, further comprising serially amplifying virus produced by the host cell.
34. [New] The method of claim 32, further comprising detecting the presence of wild type virus.